

Yonghee Shin

Undergraduate - Department of Electrical Engineering
Pohang University of Science and Technology

Personal Data

- Email: shinyonghee@postech.ac.kr

Research Interests

Robotics, Control theory, Artificial Intelligence, Robot manipulation

EDUCATION

Mar.2021 ~ Present **Pohang University of Science and Technology (POSTECH)**
Undergraduate GPA: 3.92/4.3, Percentage equivalent: 96.2/100

Mar.2019 ~ Feb.2021 **Chungnam Science Highschool**

Exchange Program **Technische Universität Berlin** (Mar.2024 ~ June.2024)

Research Experience

Sep.2024 ~ Present **Research Intern** (MARCH Lab, POSTECH)
- Research on Determining motion intentions of prosthetic users using surface EMG sensors for wireless robotic prosthesis actuation

Sep.2023 ~ Present **Capstone Design Project** (PICS Lab, POSTECH)
- Research on Analogue Circuit Design Automation platform based on AI: Developing software that automatically optimizes the size of transistors making up a given electronic circuit by applying AI algorithms

Sep.2021 ~ Dec.2021 **Freshman Research Intern** (HERO Lab, POSTECH)
- Made a Radio-controlled Boat

Honors and Awards

2023 **The 4th miliTECH Challenge** (해군사관학교 장상)
- Research on Reconnaissance and surveillance drone systems to maximize strike efficiency on high-value targets

2021 **POSTECH Programming Contest**
- 신인상

Teaching Experiences

Sep.2023 ~ Present **Student Mentoring Program** (Mueunjae, POSTECH)
- Served as a tutor to teach Programming & Problem solving (CSED101)

Sep.2024 ~ Present **Teaching Assistant** (Dept. of E.E., POSTECH)
- Served as a tutor to teach Basic Circuit Theory (EECE231)

Extracurricular Activities & Miscellaneous

- | | |
|--------|---|
| 2021 ~ | Member of Power-ON (POSTECH Robotics Club) |
| 2023 | - Made a “Underwater Robot Swimming with fin” |
| | |
| 2021 ~ | Member of ADLIB (POSTECH Drama Club) |
| 2022 | - Participated as an actor of a play, “Lithuania” |
| | - Participated as a director of Freshman Workshop |

Skills

- **Languages:** Korean(native), English(Intermediate), Japanese(Beginner)
- **Software:** Python, MATLAB, C/C++, ROS, CAD(Solidworks & Autodesk Fusion360)